

EXHIBIT A-2
TO
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Dual Carrier Immunogenic Constructs

Dr. James J. Mond and Andrew Lees
U.S. Application filed 2/10/93; Parent Application filed 2/11/92, Issued claims.

Activation and Derivatization of Soluble Polymers Using Cyano-Transfer Reagents

Dr. Andrew Lees
Patent disclosure 6/22/93

Producing Immunogenic Constructs Using Soluble Carbohydrates Activated Via Organic Cyanylating Reagents

Dr. Andrew Lees
Patent filed 9/22/93; C.I.P. Application filed 3/22/95 Issued claims. U.S. Patent #5,651,971, issued July 29, 1997.

Method of Activating Soluble Carbohydrate Using Novel Cyanylating Reagents for the Production of Immunogenic Constructs

Dr. Andrew Lees
Patent filed 6/27/95

Process for Preparing Conjugate Vaccines Including Free Protein and the Conjugate Vaccines, Immunogens and Immunogenic Reagents produced by this Process

Dr. Andrew Lees and James Mond
Patent filed 1/8/97

Coupling of Unmodified Proteins to Haloacyl or Dihaloacyl Derivatized Polysaccharides for the Preparation of Protein-Polysaccharide Vaccines

Dr. Andrew Lees
Patent filed 4/24/97